

## **CARBON TECHNOLOGY**

### **Abstract of the Disclosure**

Catalytically active carbons are used in cigarette filters for selective oxidation of selected gas phase components in cigarette smoke. The carbons are impregnated with transition metals and sulfur and/or nitrogen ligation. The catalytic activity of the carbon is significantly improved by introducing catalytically active sites by heat treatment in the range of 500-1000°C in the presence of transition metals and nitrogenous or sulfurous materials. Furthermore, introduction of such metalliferous sites into a active carbon can improve the adsorptive affinity of the active carbon for classes of compounds, including aliphatic dienes and aromatic hydrocarbons.